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REMARKS*Amendments to the Claims*

Applicant has amended Claims 23, 25-28, 59, 62, 66 and 67. Claims are amended according to Applicant's discussion with Examiners Strzelecka and Fredman on May 4, 2005 and to correct obvious typographical errors. Support for these amendments can be found throughout the Specification, for example, page 4, line 20 through page 5, line 6 describes "two or more point mutations" and describes how such an identification would identify alleles with a high probability of causing mortal disease; page 8, lines 22-25 describe genes that affect the incidence of disease; page 15, line 12 through page 16, line 1 describe point mutations as well as harmful and deleterious alleles; and page 17, lines 1-12 describe proband populations; page 25, lines 7-18 describe "obligatory knockouts". No new matter has been added. Entry of these amendments and reconsideration and withdrawal of the rejections are respectfully requested.

Summary of the Interview

On May 4, 2005, Examiner Strzelecka, Examiner Fredman, Dr. Thilly, Ms. Hogle and Dr. Yamauchi discussed the subject matter of the claims. Applicant wishes to thank Examiners Strzelecka and Fredman for granting the interview. As discussed during the interview, specific amendments could be made that would obviate the Examiner's rejections based on 35 U.S.C. §112 and 35 U.S.C. §102. Applicant has amended the Claims as discussed during the interview and to correct obvious typographical errors.

CONCLUSION

In view of the above amendments and remarks, it is believed that all claims are in condition for allowance, and it is respectfully requested that the application be passed to issue. If

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the Examiner feels that a telephone conference would expedite prosecution of this case, the Examiner is invited to call the undersigned.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

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